Year 9 Digital Technology
Learning & Assessment Overview 2020

Semester 1		Semester 2	
DIG 09.01 **Advanced Data Solutions**	**DIG 09.02** **Compression & Multimedia Animation**	**DIG 09.03** **Advanced Coding in HTML**	**DIG 09.04** **Advanced Text-Based Coding**
In this unit, students will be introduced to advanced functions and formulas in Microsoft Excel to solve open real-world problems. The focus of this unit is on the representation of data using spreadsheets. Students learn flexible, non-hardcoded design principles, layouts, range operations, simple formulas, relative vs absolute cell addresses, protection and charts.	In this unit, students focus on creating digital image solutions. They will learn about simple data compression, how content data is separated from presentation and apply these compression techniques to multimedia resources (video, audio). They will learn to design and create a sequential animation using the Adobe Animate program. Students will also be required to demonstrate understanding through a collection of work that will be gathered throughout the unit.	In this unit, students will use HTML and CSS in Notepad++ to create websites without advanced layout designs. The focus of this unit is on web design and development with students using xhtml coding to produce web pages, CSS coding for presentation, web graphics, algorithms to create site maps and page layout plans. Students will critically evaluate the created website to ensure client's needs are met.	In this unit, students will use modular programs, specifically the object-oriented programming language (Python) to program an educational game. Students will design and implement solutions to a real-world problem using different programming constructs and user interfaces including both a command line and graphical interface. Students will also test their game and evaluate against elements of good game design.
Unit Duration	**Unit Duration**	**Unit Duration**	**Unit Duration**
Weeks 1 - 10 (10 weeks)	Weeks 11 - 20 (10 weeks)	Weeks 21 - 30 (10 weeks)	Weeks 31 - 39 (9 weeks)
Assessment Task/s	**Assessment Task/s**	**Assessment Task/s**	**Assessment Task/s**
DIG 09.01.01 **Supervised Response** *Technique:* Digital Exam *Mode:* Written + ICT Digital Solution *Conditions:* Supervised, individual, 3 lessons classtime *Issued:* Week 9 *Due:* Week 9	**DIG 09.02.01** **Collection of Work** *Technique:* Digital Folio *Mode:* Written + ICT Digital Solution *Conditions:* Supervised, individual, completed throughout the term *Issued:* Week 16 *Due:* Week 19	**DIG 09.03.01** **Design Project** *Technique:* Digital Project *Mode:* Written + ICT Digital Solution *Conditions:* Supervised, individual, 4 weeks class time + own time *Issued:* Week 26 *Due:* Week 29	**DIG 09.04.01** **Collection of work** *Technique:* Digital Folio *Mode:* Written + ICT Digital Solution *Conditions:* Supervised, individual, completed throughout the term *Issued:* Week 31 *Due:* Week 39